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CENTRAL INTELLIGENCE AGENCY  
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COUNTRY Czechoslovakia

SUBJECT Development Section of Metra  
National Corporation

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1. Attached for your information is a raw report on Metra National Corporation in Nova Paka indicating research which Metra is conducting toward the development of a new type of electronic indicator. The language of this report is very confused.

2. Please return at your convenience.

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# RESEARCH

## Development Dept. of MHTA, Nat. Corp., Nova Pava. (Information from July 1950)

**Situation:** The development dept. for the whole concern MHTA, Nat. Corp. (present place of management: Slanske) has been installed by the workshop MHTA in Nova Pava in the beginning of 1948. The management of the whole concern and the central development dept., according to the new planning, will be transferred to Praha in Autumn 1950.

**Head of the development dept. in Nova Pava:** Le k r l e Jan, Czech, 27 years old, little figure, slim, dark blond hair, smoke, Communist for exist. reasons.

**Deputy:** M i d r k a J. (1), Czech, 27 years old, little strong figure, dark wavy hair, Anti-Communist.

**Number of empl.:** 7 - 8 in total

### Researching work.

**1948 - 1949** Adherence of the core of movable systems by use of Araldit.  
Working operation: The wire wound on the form (the same shape as the core) after impregnating with Araldit (artificial cement) and after taking off the form will be inserted in the electric furnace, where takes place the heating, lasting about 1 hour by a temperature of 200°C. The cement becomes hard to a compact substance as Bakalit.  
Advantage against the former process - (adherence with shellac)  
The new coil can be put on the core without changing the whole system in case of its burning. Araldit is a better insulator as shellac, which is not to be had in Czechoslovakia.  
Note: The mass-production of this system started in autumn 1949.

**1949 - 1950** Electronic indicator.  
The basis of the electronic indicator makes a system with movable coil. The metal vane fitted on the scale influences the oscillatory circuit of the tube. The stopping of the oscillations and the changing of the anode current in the tube takes place in the moment of the interfering with the oscillatory circuit. The relay switch on or put out of circuit the prime center at the same time. Any kind of tube can be used, they experimented with 6X 22. Frequency about 70 - 80 Kc. The results are excellent, the testing practically finished and the mass-production can be started immediately after patenting this instrument.

**Summary-Note:** The present manager of MHTA workshop Nova Pava: Le u k e t a. The workshop employs about 500 employees, produces: thermic indicators, steam meters (calorimeters), pressure indicators, gas-meters etc.  
Export: mostly to USSR and Soviet Satellites.  
Planning: manufacture of the new electronic indicator will be started in the next future in several workshops of MHTA.

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